S/137/61/000/011/012/123 A06Q/A101

AUTHOR:

Voytov, A.O.

TITLE:

Control of the thermal schedule of open-hearth smelting, and its

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 15, abstract 11B88 (V sb. "Novoye v teorii i praktike proiz-va martenovsk. stali", Moscow, Metallurgizdat, 1961, 227-236, Discussion 332 - 334)

In order to control the process it is sufficient to take into account the combined effect of several of the most important factors, which may be studied by the use of the method of correlation analysis with estimation of the TEXT: probability of the results. On the basis of an investigation carried out upon the open-hearth furnaces of the plant "Zaporozhstal", heated by a blast-furnace-coke mixture with  $0_2$  fed to the tongue, a number of equations were derived. The dependence of the heat assimilation of the charge during the priming upon the regulating processes is represented in the form of the equation qassim = 33.40 - 15.15x+ ting processes is represented in the form of the equation 4assim = 0.00 K = 2.50  $\tau$ , where  $\alpha$  is the excess air coefficient; K is the 0<sub>2</sub> expenditure in the flame in thousands of nm<sup>3</sup>/hr;  $\tau$  is the duration of the priming period

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in hours. The multiple correlation coefficient R is equal to 0.950, the reliability of the multiple correlation exceeds 0.999. The mean square error of the calculated determination is 1.25 · 106 kilocalories/hour, and the part of the dispersion caused by the influence of factors unaccounted for constitutes 11%. The multiple regression equation makes it possible to estimate the effectiveness of each of the regulating actions under the conditions of combined action-of the factors taken into account. Thus, a 1 · 100 kcal/hr (7%) change in the heat assimilation causes a change in 02 expenditure of 500 m<sup>2</sup>/hr, or a change in the excess air coefficient of 0.07, or a change in the priming duration of 0.4 hrs. The influence of the thermal load upon the heat assimilation of the charge under the conditions of use is not established with sufficient clarity because of the small range of variation of the thermal loadings. Thus, during the priming period the factors which affect most strongly the heat assimilation of the charge are the 02 expenditure and the excess air coefficient. The equation for the initial heating period has the form  $q_{ass}$  = 18.38 + 0.33  $q_T$  - 12.77  $\propto$  + 1.60 K - 1.24  $\Upsilon$ , where  $q_T$ is the thermal load in millions of kilocalories/hr. In that case R = 0.880, the mean square error is 1.46.106 kcal/hr, D = 22.9%. Under the conditions of regulating the air excess the control actions are the heat and the O2 expenditures. For the smelting period under the combined effect of the 02 expenditure and that of

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the air excess coefficient the smelting duration  $7 = 3.75 - 0.53 \text{ K} - 0.17 \text{ \alpha}$ . The inclusion of two more factors: the thermal load and the weight of the ore in the charge into the equation does not raise the accuracy of the determination of 7. In this case the main regulating action is exerted by the  $0_2$  feed, which makes it possible to compensate for deviations of the smelting duration of up to 1.5 hours by varying K from 0 to 3000 nm $^3$ /hr. During this period the effectiveness of  $0_2$  utilization is higher than that during the period of priming and heating up.

Yu. Nechkin

[Abstracter's note: Complete translation]

Card 3/3

YUPKO, L.D.; TRUBETSKOV, K.M.; GUESKIY, G.L.; TEREKHOV, I.A.; GUSEV, V.F.; yoYTOV, A.O.

Accelerating open-hearth furnace smelting with an increased use of oxygen. Stal\* 23 no.1:15:19 Ja \*53. (MIRA 16:2)

1. Zavod "Zaporozhstal", TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii i TSentroenergochermet.

(Open-hearth process) (Oxygen--Industrial applications)

TRUBETSKOV, K.M., kard.tekhn.nauk; KORNFEL'D, V.N., kand.tekhn.nauk
GREKOV, Ye.A., inzh.; VOYTOV, A.O., inzh.; SHTEYHBERG, L.S., inzh.;

LOMTATIDZE, G.A., inzh:

Investigating the melting of the open-hearth furnace charge with
various methods of using oxygen [with summary in English]. Stal'
21 no.3:214-222 Mr '61. (MIRA 14:6)

(Open-hearth furnaces) (Oxygen--Industrial applications)

VOYTOV, A O. BOY/5556 PHASE I BOOK EXPLOITATION Moscow. Institut stali. Hovoye v teorii i praktike proizvodstva martenovskoy stali (Nev [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed. Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina. Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev. PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields. Card 1/14

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

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New [Developments] in the Theory (Cont.)

807/5556

COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with beauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: B.I. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, G.B. Oyks and Ye. V. Chelishchev (Moscov Steel Institute); Te. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); H.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov. and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscov "Berp i molot" Metallurgical Plant); V.A. Fukley (Central Asian Polytechnic Institute)

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	and M.I. Beylinov (Night School of the Dneprodzerzhinsk Hetallu References follow some of the articles. There are 268 reference	rgical Institute).		
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	Filippov, S. I. [Professor, Doctor of Technical Sciences, Moscov Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation Motals With Low Carbon Content [V. I. Antonenko participated in the experiments.]			
	Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetr metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institu	rovskiy	\$	
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	Grankovskiy [Engineer] [Kiyevskiy politekhnichuskiy institut - Kiyev Polytechnic Institute]		: 1	
	Kiyev Polytechnic Institute]. Investigating the Thermal Performance of the 500-Ton Open-Hearth Furnace	÷	,	
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i ·	Voytov, A.O. [Engineer, TRENTROZNERGOCHERUST]. Control and Automation of the Thermal Regime in the Open-Hearth Breast Property Pr		į. · · · ·	•
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AUTHORS: Kornfel'd, V.N., Candidate of Technical Sciences,

Voytov, A.O., Koshelev, V.I., Shorin, A.F. and

Dymov, B.K., Engineers

TITLE: Thermal Performance of an Open Hearth Furnace when Blowing Oxygen or Oxygen Water Mixture into the Bath

(Teplovaya rabcta martenovskoy pechi pri produvke

metalla)

PERIODICAL: Stal', 1959, Nr 6, pp 513-520 (USSR)

ABSTRACT: Thirty eight experimental heats with blowing oxygen

into the metal bath were carried out on a 200 ton open hearth furnace operating with 70% of hot iron. The moment of the beginning of blowing was varied. In order to decrease the formation of fumes during blowing in some heats, water was introduced into the oxygen stream (0.7 - 0.9 litres per 1 m<sup>3</sup> of oxygen). The consumption of oxygen during blowing varied from 25 to 35 m<sup>3</sup>/min and when using water additions from 27 to

37 m<sup>3</sup>/min. Thermal load during the experimental heats was manually controlled on the basis of systematic

Card 1/6 analyses of the combustion products in vertical flues

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and temperatures of the roof (magnesite chromite) and the top of the air regenerators (upper layers forsterite bricks). In some moments of the heats the thermal load was limited by draught capacity of the furnace. The oxygen supply to flame was cut off during blowing period in order to economiss oxygen. The experimental results obtained are shown in Figures 1 - 8. It was found that: 1) Due to an acceleration of decarburisation of metal and an intensification of the evolution of CO from the bath, thermal load during blowing is considerably decreased. Correspondingly the mean thermal load for the whole decarburisation period (from charging of hot iron to the end of blowing) also decreases. 2) When the blowing is started at an optimal moment, the course of heat in the thermotechnological sense substantially differs from the usual one for the open hearth process. Under experimental conditions the mean thermal load during blowing was decreasing to 14 million cal/hr, whereupon

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during 30 - 40 minutes it actually amounted to 5 - 6 mil cal/hr and during 15 - 20 minutes of the most violent evolution of CO from the bath, the supply of fuel was completely stopped. 3) The mean thermal load for the whole decarburising period (from charging hot iron to end of blowing) was actually determined by the proportion of the period taken for blowing; the earlier the blowing was started, the lower was the mean thermal load for this period. 4) The absorption of heat by the bath (per unit of time) and the coefficient of the utilisation of the furnace working space increases during blowing. On average during blowing as well as during the decarburisation period the above factors were higher the earlier blowing was started. 5) The period of decarburisation decreases more, the earlier blowing is started, whereupon the rate of decrease of the decarburising period increases faster than the rate of increase of the rate of heat absorption by the bath. Therefore, if blowing was started too early, the metal remains

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insufficiently heated when the blowing is finished and it is necessary to heat it further under inconvenient conditions of decarburised bath. A rational relationship of the duration of the decarburising period and intensity of heating up metal will be obtained only if the blowing is started at an optimal moment, as only then will the maximum thermotechnical effect be obtained. Under experimental conditions, the average specific consumption of conventional fuel for heats in which the blowing was started at the optimum moment decreased to 87 kg/t (with specific consumption of oxygen 37 m3/t, including 22 m3/ton added to flame before starting blowing). 6) On the addition of water to the stream of oxygen for the prevention of excessive fuming, the abovementioned relationship remains valid. However, as a proportion of heat is consumed for the evaporation of water and heating up of the steam formed to a

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temperature of the products of combustion, the decarburisation process proceeds less intensively and the heat absorption by the bath and the thermal coefficient of utilisation of the furnace working volume are lower than on blowing oxygen alone. The minimum average specific fuel consumption for heats in which the blowing with the oxygen-water mixture was commenced at the optimum moment for the experimental condition amounted to 107 kg/ton for the whole heat (at the same oxygen consumption as on blowing oxygen alone). 7) In the course of heats with blowing oxygen or oxygen water mixture, the temperature conditions of the furnace lining do not differ materially from ordinary heats, providing the thermal load is controlled according to the intensity of the evolution of carbon monoxide from the bath and normal conditions of normal combustion in the working volume are maintained. A high velocity of the processes taking place during blowing requires continuous watching of the thermal conditions of the heat (an appropriate automation of

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Thermal Performance of an Open Hearth Furnace when Blowing Oxygen or Oxygen Water Mixture into the Bath

the control of this process is necessary). 8) Under the experimental conditions the optimum moment for the beginning of blowing was found to be between 60 and 80 minutes after the beginning of charging of liquid iron. The optimum moment can be shirted nearer to the time of charging liquid iron, by decreasing the proportion of the cold component of the charge. However, the advisability of such a measure should be determined under the actual conditions of the economy of the process as a whole. There are 8 figures and 4 Soviet references.

ASSOCIATION: Tsentroenergochermet i Moskovskiy institut stali (Tsentroenergochermet and Moscow Institute of Steel)

Card 6/6

SEL'KIN, G.S., inzh.; TRUBETSKOV, K.M., kand.tekhn.nauk; GRKKOV, Ye.A., inzh.; ZADALYA, N.P., inzh.; VOYTOV, A.O., inzh.; MITROFANOV, A.A., kand.tekhn.nauk

Direct oxidation of the open-hearth bath with an oxygen-water mixture.

Kislored 11 no.6:3-7 F \*59.

(Open-hearth process) (Oxygen--Industrial applications)

5(2) AUTHORS:

507/67-58-6-2/22 Sel'kin, G. S., Engineer, Trubetskov, K. M., Candidate of Technical Sciences, Grokov, Ye. A., Engineer, Zadalya, N. P.,

Engineer, Voytov. A. O., Engineer, Mitrofanov, A. A., Candidate of Technical Sciences

TITLE:

Direct Oxidation of the Martin Tank by an Oxygen-Water Mixture

(Pryamoye okisleniye martenovskoy vanny kislorodo-vodyanoy

smes'yu)

PERIODICAL:

Kislorod, 1958, Nr 6, pp 3 - 7 (USSR)

ABSTRACT:

In the production of steel from cast iron, the latter was submitted to oxygen blowing in the melting tank, for the purpose of carbon burning. This process was accompanied by very high temperatures. Iron evaporated and formed a large amount of melt dust, which impair the refractory furnace lining and caused its premature destruction. By blowing with an oxygen-water mixture it was intended to reduce dust for-mation (30-35 m<sup>3</sup> oxygen, 40 1 water; later on during the course of process, 30 1 water). The investigations were carried out with two Martin furnaces of the "Zaporozhstal"

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factory. Academician I. P. Bardin supervised the work. The

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Direct Oxidation of the Martin Tank by an Oxygen-Water SOV/67-58-6-2/22 Mixture

use of oxygen-water blast in the melting and tapping of lowcarbon-content steel processing increased the furnace efficiency by 7-7.5%. The fuel consumption decreased by 7%, as conpared to melting with oxygen blast. The quantity of liquid steel is somewhat less than that obtained by pure oxygen blast which is due to the ore consumption for the melt being a little lower. The best moment to begin blowing is about 80 minutes after the cast iron has begun flowing in, and the process is ended when the carbon content is higher by 0.02% than before deoxidation. In the melting of steels with a medium carbon content, the furnace efficiency was increased by 5-6%, whereas fuel consumption was lower by 2-3%. The hydrogen content in the boiling metal does not exceed the admissible quantity. The use of an oxygen-water mixture for blast has proved an efficient means for diminishing melt dust. Moreover, all impurities are thus separated. There are 3 figures, 2 tables, and 6 references, 4 of which are Soviet.

Card 2/2

Interaction between Co-oxides of the acetylenic caries and hydronitric acid. Vest. [...] 20 no.4:151-153 [65.] (MIRA 18:4)

PERVEYEV, F.Ya., VOYTOV, A.P.

Interaction of C-oxides of the acetylenic and vinylecetylenic series with nucleophilic reagents. Part 1. Zhur, org, khim, 1 no.21226-229 F 165. (MIRA 1814)

1. Loningradskiy gosudarstvonnyy universitet.

ETTINGER, I.L.; EMITRIYEV, A.M.; BOGDANOVA, Ye.M.; VOYTOV, G.1.

Some characteristics of the sorption properties of the anthracite of the eastern Donets Basin. Dokl. AN SSSR 156 no. 5:1099-1101 (MIRA 17:6)

1. Institut gornogo dela im. A.A.Skochinskogo. Predstavleno akademikom N.V.Mel'nikovym.

MATWIMMIO, N.G., kand. tekhn. nauk; VOYTOV, G.I., kand. tekhn. nauk

Gas liberation during ore mining in igneous rook. Eezop. truit

V prom. 8 no.12:23-22. D '64.

1. Institut gornego dela im. A.A. Skechinak-go.

VOYTOV, G.I., kand.tekhn.nauk Gas content of ore deposits. Gor. zhur. no.8:68-70 ig 165. (MIRA 18:10)

VOYTOV. G.I., inzh.; POLYANSKIY, M.N., inzh.; FRIDMAN, A.I., kand. geologo-miner. nauk

Nature of gas occurrences in mines of the Khibiny apatitenepheline deposits. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4: 39-44 '63. (MIRA 16:7)

l. Moskovskiy geologorazvedochnyy institut imeni Ordzhonikidze Rekomendovana kafedroy goryuchikh iskopayemykh. (Khibiny Mountains—Mine gases)

。 第二章 1955年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957年,1957

#### VOYTOV, G.I., inzh.

Gases in the Khibiny apatite-nepheline deposits. Gor. zhur. no.12:47-49 D 162. (MIRA 15:11)

1. Institut gornogo dela im. Skochinskogo, Moskva. (Khibiny Mountains—Mine gases)

VOYTOV, M. I.; KHAUSTOVICH, N. A. (Veterinarian)

"Treatment of swine erysipelas with penicillin."

SO: Veterinariya 26 (11), 1949, p. 33

Minsk City Veterinary Polyclinic

#### "APPROVED FOR RELEASE: 08/09/2001

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VCYTOV, M. L.

USSR/Medicine - Penicillin Erysirelas

Nov 49

"Treatment of Swine Erysipelas With Penicillin," N. A. Khaustovich, M. L. Voytov, Veterinarians, Minsk Mun Vet Folyclinic, 12 pp

"Veterinariya" No 11

Effected complete recovery of 16 cases of swine erysipelas by treatment with three penicillin injections; initial injection of 100-250 IU, followed after 3 hr by one of loo units, and after 18-20 hr by third injection of 100 units. This treatment is faster acting and less expensive than antierysipelas serum (required pericillin costs 5 rubles; serum 6). States desirability of supplying penicillin to general veterinary practice, where it would find variety of uses for diseases in agricultural animals.

PA 159T45

VOYTOV, P., kand.sel'skokhozyaystvennykh nauk

Mechanized cultivation of vegetables and potatoes. Tekh.v sel'khoz.

19 no.5:20-22 My '59. (MIRA 12:7)

(Potatoes) (Vegetable gardening) (Agricultural machinery)

Wechanized weed control. Tekh. v sel'khoz. 20 no.7:22-24
J1 '60.

(NIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy
i agropochvovedeniya.

(Weed control)

#### 

VOYTOV, P., kand.sel'skokhozyaystvonnykh nauk

Grow vegotables in flood lands. Mauka i pered.op.v sel'khoz.
9 no.1:17-20 Ja '59. (MEA 13:3)

(Vegetable gardening)

- 1. VOYTOV, P. I.
- 2. USSR (600)
- 4. Vegetable Cardening
- 7. Mechanization of basic processes in growing vegetable crops. Dost.sel'khoz. no. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

VOYTOV, P. I.

Vegetable Gardening

Mechanization of basic work in the cultivation of vegetable crops; Sad. i og. no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

1. VOYTOV, P.I.

2. USSR (600)

4. Agricultural Machinery

7. For all-over mechanization in vegetable gardening, Sad i og. no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

VOYTOV, P. I.

Voytov, P. I. - "The Agricultural-Engineering and Economic Effectiveness of Mechanized Cultivation of Carrots, Based on the Experience of Kolkhozes in the Moscow Suburban Zone." Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1956 (Dissertation for the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

VOYTOV Pavel Ivanovich; KRYUKOV, V.L.; GUREVICH, M.M., tekhnicheskiy
redaktor

[Mechanization of vegetable cultivation] Mekhanizatsiia voxdelyvaniia ovoshchnykh kul'tur. Moskva, Gos. izd-vo selkhoz. lit-ry,
1956. 164 p. (MLRA 9:9)

(Vegetavle gardening) (Agricultural machinery)

VOYTOV, P. I. Cand Agr Sci -- (diss) "The agricultural-engineering and economic effectiveness of mechanized cultivation of carrots. According to experimental kolkhozes of Moscow suburban area." Mos, 1957. 16 pp 20 cm. (Mos Order of Lenin Agr Acad im K. A. Timiryazev), 110 copies (KL, 24-57, 119)

-57-

VOYTOV, P.I., red.; KAZAKOVA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red. [Growing vegetables on bottom land] Vyrashchivanie ovoshchei

na poimennykh zemliakh. Moskva, Gos. izd-vo sel'khoz. lit-ry,
1058 165 p. (MIRA 12:1) 1958. 165 p.

(Vegetable gardening)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

LADONIN, Vadim Feopentovich, kand. sel'khoz. nauk; VOYTOV, Pavel Ivanovich, kand.sel'khoz.nauk; ZELFNETSKAYA, L.V., red.; LEVINA, L.G., tekhn. red.

[Herbicides and the mechanization of their use; text book for agrochemical compulsory education] Gerbitsidy i mekhanizatsiia ikh vneseniia; posobie dlla agrokhimicheskogo vseobucha. Moskwa, Rossel'khozizdat, 1964. 124 p. (MIRA 17:3)

VOYTOV, Pavel Ivanovich; SHULEYKIN, P.A., red.; RAKITIN, I.T., tekhn. red.

[Chemistry and harvest] Khimiia i urozhai. Moskva, Izdvo "Znanie," 1963. 30 p. (Narodnyi universitet kul'tury: Sel'skokhoziaistvennyi fakul'tet, no.6) (MIRA 16:5) (Agricultural chemicals)

VOTTOV, Pavel Ivanovich, kand. sel'skokhoz. nauk; ROZIN, M., red.; SHKOL'NIKOV, A., red.; KUZNETSOVA, A., tekhn. red.

[Machines and attachments for the placement of liquid fertilizers? Mashiny i prisposobleniia dlia vneseniia zhidkikh udobrenii. Moskva, Mosk. rabochii, 1963. 85 p. (MIRA 16:6) (Fertilizer spreaders)

VOYTOV, P.I., kand.sel'skokhozyaystvennykh nauk

Mechanization of the application of herbicides. Zdshch. rast. ot vred. i bol. 7 no.3:37-38 Mr '62. (MIRA 15:11) (Herbicides)

### 

VOYTOV, P.I., kand.sel'skokhozyaystvennykh nauk

Machinery for the application of liquid fertilizers. Zemledelie (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut udobreniy i agropochvovedeniya.

(Fertilizer spreaders)

VOYTOV, Pavel Ivanovich, kand. sel'khoz. nauk; VASIL'YEVA, Ye., red.; PAVLOVA, S., tekhn. red.

[Care of corn fields] Ukhod za posevami. Moskva, Mosk, rabochii, 1961. 21 p. (Corn (Maize))

CONTRACTOR OF THE PROPERTY OF

Wechanized herbicide placement. Zashch. rast. ot vred. i bol. 5

Mechanized herbicide placement. Zashch. rast. ot vred. i bol. 5

(MIRA 13:9)

no.4:40-43 Ap '60.

(Spraying and dusting equipment)

VOYTOV, Vitaliy Ivanovich; PONOMAREVA, Larisa Anatol'yevna;

PERVAKOV, I.L., red.; CHERNYKH, M.P., mladshiy red.;

BURLAKA, N.P., tekhn. red.

[Off the sea lanes] V storone ot morskikh dorog. Moskva, Geografgiz, 1962. 101 p. (MIRA 16:6) (Pacific Ocean--Description and travel)

VOITOV, Vitaliy Ivanovich; PONOMAREVA, Larisa Anatol'yevna; PERVAKOV,
I.L., red.; CHERNYKH M.P., mladshiy red.; EURLAKA, N.P.,
tekhn. red.

[Away from the ocean routes]V storone ot morskikh dorog. Moskva, Geografgiz, 1962. 101 p. (MIRA 16:1)
(Far East-Description and travel)
(Far East-Oceanographic research)

VOYTOV, V.T., kand.geograf.nauk

Seaways to Polynesia. Priroda 54 no.2:80-89 F 165.

1. Enstitut oksanologii AN SSSR, Moskya.

(MIRA 18:10)

sov/26-59-4-15/43

3(9) AUTHORS: Ponomareva, L.A., Candidate of Biological Sciences and Voyto, V.I.

TITLE:

On the Herait Atoll (Na atolle Khermit)

PERIODICAL:

Priroda, 1959, Nr 4, pp 70-72 (USSR)

ABSTRACT:

In the spring of 1959, an expedition of the Institute of Cceanography of the AS USSR on board the ship "Vityaz'" car ied out research on the west part of the Pacific within the framework of the International Geophysical Year. On hay 12, the expedition visited the Hermit Atoll, situated about 90 miles north-west of the Admiralty Island in the New Guirea Sea. Taking the fauna of the Hermit Atoll as an example for the Pacific islands' fauna in general, the authors give a detailed description of it. Among other findings the authors rention the Pagurus, Birgus latro, Nautilus, talitridae, Halimeda, Madreporaria, Milleporidae (Hydrozoa), Alcyonaria and Octocorallia,

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6" On the Hermit Atoll

SOV/26-59-4-15/43

Scomb r japonica, Tetradontidae, Trochus, Spondilus, Tridakna, etc. There are photo and 1 graph.

ASSOCIATION: Institut okear ologii Akademii nauk SSSR (Moskva) (Institute of Oceanography of the AS USSR)

Card 2/2

的作品 排機體 發口的第三人称形式 经营销额

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

CVOYTOV, V.I.: YEGOROVA, A.A.; TARASOV, N.I.

Luminiscence of cultures of the free-moving Bacterium Issatchenkoi Egorova from the Black Sea. Dokl.AN SSSR 132 no.6:1425-1426 Je '60. (MIRA 13:6)

1. Institut mikrobiologii Akademii nauk SSSR. Predstavleno akademikom V.N.Shaposhnikovym.
(BIACK SEA-BACTERIA, LUMINOUS)
(THYPTONE)

VOYTOV, V.I.

Optical characteristics of water masses as indexes of processes of turbulent mixing in the sea. Okeanologita 4 no.32386-395 164

(MIRA 18:1)

1. Institut okeanologii AN SSSR.

VOYTOV, V.K., tekhnik

Replacement of insulators without removing the core in transformers with ratings up to 5,600 kv.-a. Energetik 10 no.4:26-27 Ap (MIRA 15:4)

(Electric transformers—Maintenance and repair)

KOTEL'NIKOV, V.A.; APRAKSIN, L.V.; VOYTOV, V.O.; GOLUBTSOV, M.G.;
DUBROVIN, V.M.; ZAYTSEV, N.M.; KORENBERG, Ye.B.; MINASHIN, V.P.;
MOROZOV, V.A.; NIKITSKIY, N.I.; PETROV, G.M.; RZHIGA, O.N.;
SHAKHOVSKOY, A.M.

Radar system used in the Venus probe of 1961. Radiotekh. i elektron. 7 no.11:1851-1859 N '62. (MIRA 15:11)

VOYTOVA, L., aspirantka

Effect of microelements and herbicides on the disease resistance of barley. Zashch. rast. ot vred. i bol. 10 no.10:20-21 '65. (MIRA 18:12)

1. Belorusskaya seliskokhozyaystvennaya akademiya.

## VOYTOVA, L.R., assistent

Infection of barley with the fungus Helminthosporium gramineum Rabh. Zashch. rast. ot vred. i bol. 8 no.6:26-27 Je '63.

(MIRA 16:8)

1. Belorusskaya sel'skokhozyaystvennaya akademiya, Gorki.
(White Russia-Barley-Diseases and pests)
(White Russia-Helminthosporium)

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Increasing the capacity of eracting extern. Energybiul. nc.12:
1-8 D '55.
(Electric drivings tree eracting extern. Energybiul. nc.12:
(Electric drivings tree eracting extern. Energybiul. nc.12:
(MERA 9:2)

Subject

: USSR/Engineering - Electricity

Card 1/1

Pub. 28 - 1/11

Author

: Voytova, N. A.

Title

: Problem of Increasing Power of Motors Driving Drilling

AID P - 3983

Installations.

Periodical: Energ. byul., 12, 1-6, D 1955

Abstract

The author analyses the operation of drilling installations powered by the MAB and MAD-type induction

motors, and concludes that a further increase of power beyond 800 kw is not necessary. More efficiency of operation could be obtained by reducing the time lost in

manual auxiliary operations. He suggests further mechanization and 'automation' of drilling process. Three graphs, 3 tables, and 9 Russian references.

Institution:

None

Submitted

No date

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6" VEDENKIN, D.P., inzh., red.; ZASLAVSKIY, Ye.I., inzh., red.; KOVAL'SKIY, L.Ya., inzh., red.; VOYTOVA, Y.P., inzh., red.; SHELIKHOV, S.N., inzh., red.; HEUDAKIN, K.A., red.

[Price list for the assembly of equipment] TSennik na montazh oborudovaniia. Moskva, Stroiizdat. No.11. 1965. 104 p. (MIRA 18:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Vedenkin). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Gosstroya SSSR (for Zaslavskiy, Koval'skiy, Voytova). 4. Proyektno-konstruktorskoye byuro No.12 Glavmontazhavtomatiki (for Neudakin). 5. Vsesoyuznyy bank finansirovaniya kapital'nykh vlozheniy SSSR (for Shelikhov).

VOYTOVA, Ye. L.

"Evaluation of addition algorithm complexity"

report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

9.7100

\$/194/61/000/006/013/077 D201/U302

AUTHORS:

Glushkov, V.M., Rabinovich, Z.L. and Voytova, Ye.L.

TITIE:

Analysis of trigger transients by an electron digi-

tal computer

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 38, abstract 6 B282 (V sb. Vses. Nezhvuz. konferentsiya po teorii metodam rascheta nelineynykh elektr. tsepey, no. 2-N (P), Tashkent,

1960, 95-112)

TEXT: Description of methods used and of certain preliminary results of mathematical analysis by the computer 'Ural' of transients of a trigger are given. The analysis was undertaken in order to explain certain fine details of the mechanism of trigger operation and to determine possible ways of its design from the point of view of its operating reliability. The trigger circuit investigated was that used in the BOCM (BESM) computer. The analysis was

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6" Analysis of trigger transients...

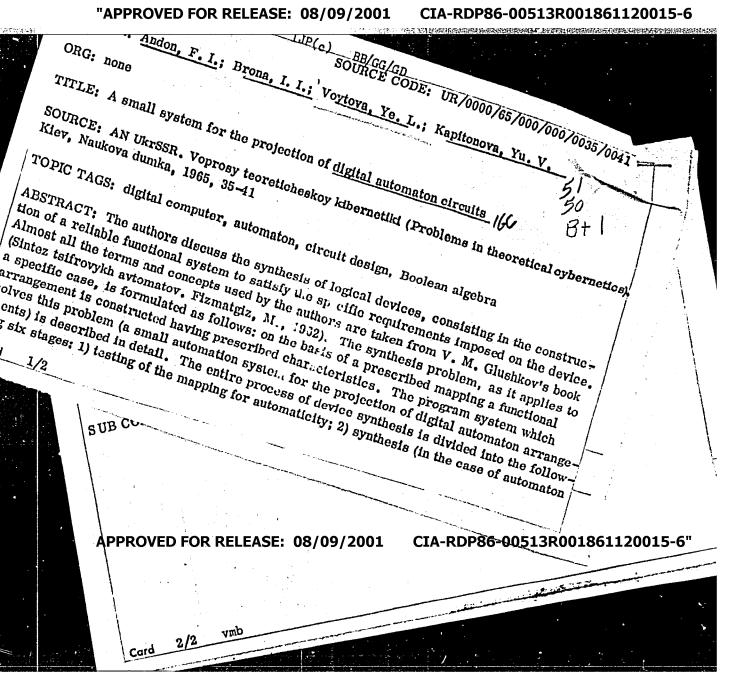
S/194/61/000/006/013/077 D201/D302

performed by means of the actual solution of a system of non-linear differential equations by the 'Ural' computer. It was thus possible to analyze the mechanism of trigger operation and to understand the relationship between the reliability of the switch-over and the speed of trigger operation. The preliminary results of the analysis are given. Il figures. 4 references. Abstracter's note: Complete translation



Card 2/2

# "APPROVED FOR RELEASE: 08/09/2001



35915-66 ÉWT(d)/EWF(1) IJF(c) GG/BB/GD

ACC NR. AT6018029

SOURCE CODE: UR/0000/65/000/000/0027/0041

AUTHOR: Voytovich, I. D.

ORG: None

TITLE: Allowances for control currents in a cryotron memory device

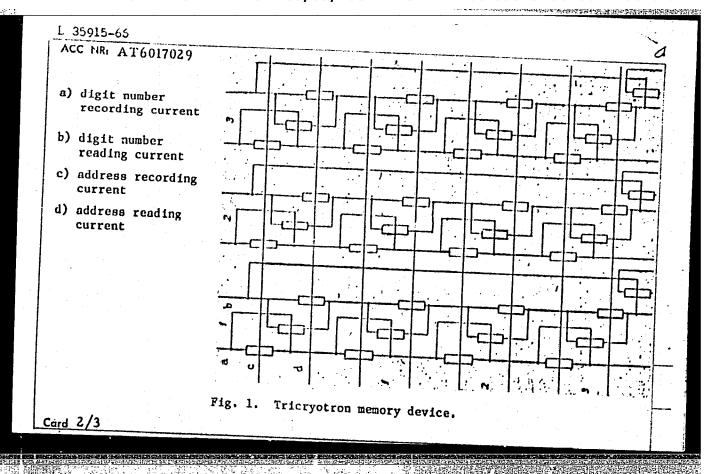
SOURCE: AN UkrSSR. Kiberneticheskaya tekhnika (Cybernetic techniques). Kiev, Naukova dumka, 1965, 27-41

TOPIC TAGS: circuit design, memory core, memory access technique, pulse signal, signal analysis, electric current

ABSTRACT: This article investigates a type Z cryotron memory device consisting of tricryotron elements (Fig. 1). Formulas are derived by means of which the boundary values of control currents are determined as a function of the geometric parameters of memory cells and individual cryotrons. Such factors of unreliability as solders, plug joints, internal noise, and external interference are reduced to a minimum in the film cryotron circuits. Therefore, allowances for the control currents in these circuits are the main criteria of their reliability. The principle proposed for the calculation of the allowances for the control currents is applicable to any cryotron memory device and to many cryotron logic circuits.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"



L 35915-66 ACC NR: AT6017029

It is concluded that the formulas for calculating the allowances and two of the examples presented indicate that the parameters of modern film cryotrons make it possible to change three of the control currents studied (the digit number recording current, the address recording current, and the address reading current) of the memory device studied within the limits of  $\pm$  30% and higher. Allowances for the digit number reading current present more difficulties; the author recommends redesigning the reading circuits and their modes of operation before designing cryotron memory circuits. Orig. art. has: 31 formulas and 3 figures.

SUB CODE: 09/ SUBM DATE: 28Jul65/ ORIG REF: 001/ OTH REF: 002

Card 3/3 01/~

L 40104-66 ENT(a)/ENP(t)/ETI IJP(c) JW/JD/HW/JG/WB ACC NR: AP6019569 SOURCE CODE: UR/0080/66/039/006/1418/1422 AUTHOR: Voytovich, R. F. ORG: Institute of Materials Science Problems, AN UkrSSK Institut problem materialovedeniya AN UkrššR) 27 27 TITLE: Oxidation rate of niobium-iron and niobium-cobalt alloys at high temperatures SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 6, 1966, 1418-1422 TOPIC TAGS: niobium alloy, iron alloy, cobalt alloy, metal scaling, metal oxidation ABSTRACT: The scaling of pure iron, cohalt, and alloys of niobium with iron (10, 30, 50, 70, 90 wt.%) and niobium with cobatt (10, 30, 50, 70, 90 wt.%) was studied in the 500-900°C range in air. The oxidation curves of the alloys showed that the alloying of niobium with iron and of iron with niobium causes a substantial increase in the oxidation resistance of the metals; alloying of niobium with up to 30% cobalt causes a marked increase in the scaling resistance of niobium, whereas the addition of niobium (in amounts up to 30%) to cobalt gives rise to an extensive scaling of cobalt at 800-900°C. Values of the free energies of possible oxidation-reduction reactions in the scale and their equilibrium constants were calculated for various temperatures for both types of alloys. Results of these calculations indicate that in Nb-Fe alloys, the predominant reaction taking place is the reduction of iron oxides to pure iron and the formation of Nb205; this increases the corrosion resistance of the al-<u>Card 1/2</u> UDC: 541.124/128+546.3-19\*882\*72+546.3-19\*822\*73

# ACC NR: AP6019569 loys, since the defect phase FeO, which speeds up the oxidation rate, is eliminated from the sphere of the reaction. In the scale of Nb-Co alloys, CoO is reduced to cobalt; x-ray analysis showed the presence of Nb<sub>2</sub>O<sub>5</sub>, Co<sub>3</sub>O<sub>4</sub>, CoO, FeO, and of small amounts of iron and cobalt. Orig. art. has: 4 figures and 1 table. SUB CODE: 07, 11/ SUEM DATE: 13Sep63/ ORIG REF: 001/ OTH REF: 002

POLYAKOVA, V.M., FAYNERMAN, A.Ye., VOYTSEKHOVSKIY, R.V.

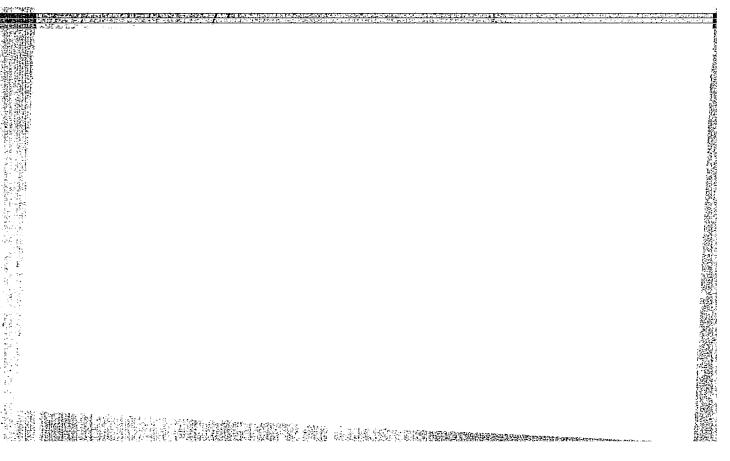
Use of diffusion salting-out for evaluating the molecular weight distribution of poly- &-caproamide. Vysokom. soed 6 no.3:432-433 Mr'64. (MIRA 17:5)

1. Institut khimii polimerov i monomerov AN UkrSSR.

VOYTOVETSKIY, V.G.; TOLMACHEVA, N.S.

Lithium silicate glasses as sxintillaters for the detection of slow neutrons. Atom. energ. 6 no.4:472-474 Ap '59.

(Scintillation counters) (Neutrons) (Glass)



21(4) AUTHORS:

Voytovetskiy, V. K., Tolmacheva, N. S., Arsayev, M. I.

TITLE:

A Scintillating Glass for Detecting Slow Neutrons (Stsintill-yatsionnoye steklo dlya detektirovaniya medlennykh neytronov)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 3, pp 321 - 326 (USSR)

ABSTRACT:

The composition and the activator of a scintillating glass must be chosen in such a way that their spectra are within the range of maximum sensitivity of the photomultiplier and do not intersect with the absorption spectrum. A series of glass types was produced (Li<sub>2</sub>0.SiO<sub>2</sub>, Li<sub>2</sub>0.2SiO<sub>2</sub>,

1/2 Li<sub>2</sub>0. 1/2 Na<sub>2</sub>0.2SiO<sub>2</sub>, 1/2 Li<sub>2</sub>0. 1/2 K<sub>2</sub>0.2SiO<sub>2</sub>, 1/3 Li<sub>2</sub>0.

· 1/2Rb20.2SiO2, Li20-Ca0.2SiO2) which were activated with Ce.

Glass of the type Li<sub>2</sub>0.2SiO<sub>2</sub> proved to be the most convenient if it was activated with 2 mol-% Ce. The glasses were produced in the following way: carbonic acid salts of Li, Ca,

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Na, K, Rb, and SiO, were mixed at certain weight proportions and a titrated solution of trivalent Ce(CeCl<sub>3</sub>) was added to

A Scintillating Glass for Detecting Slow Neutrons

SOV/89-6-3-11/29

this mixture. Furthermore, distilled water was added to this mixture until a viscous mass formed which was triturated in a porcelain crucible during one hour. Then the mass was dried at 100°C and annealed for 20 min at 800°C. The production of the enamel which followed was made in a corundum container at a temperature of from 1250-1300°C. After about 2-3 hours the enamel had become transparent. It was poured into a cold metallic mold and the disk-shaped pieces of glass thus produced were after-treated in a muffle furnace heated to 500°C during 30 minutes. The scintillating efficiency of the types of glass - due to electron excitation - was measured by a comparison with the scintillating efficiency of a NaJ(Tl) crystal in a scintillation-Compton spectrometer. In this connection the efficiency of the glass is 1.4% of the NaJ(T1)-crystal. The ratio between the scintillation yields of electrons and α-particles was measured 3.8 - 4. Luminescence of a scintillation flash is about 0.15 µsec. If the glass has a thickness of 1 mm and contains lithium enriched with Li6 to 90.5% it has an efficiency of 82% for thermal neutrons. If the glass is 5 mm thick its efficiency

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A Scintillating Glass for Detecting Slow Neutrons

SOV/89-6-3-11/29

decreases to 40% in the detection of 10 ev-neutrons. The sensitivity of glass to fast neutrons is low and attains an optimum efficiency of 0.05% at a thickness of 1 mm of the glass. Z. M. Karpova assisted in the production of the glass samples. There are 9 figures, 1 table, and 11 references, 5 of which are Soviet.

SUBMITTED:

October 25, 1958

Card 3/3

21(1), 21(8)

807/89-6-4-13/27

AUTHORS:

Voytovetskiy, V. K., Tolmacheva, N. S.

TITLE:

Lithium Silicate Scintillation Glasses for the Detection of Slow Neutrons (Litiy-silikatnyye stsintillyatsionnyye stekla dlya detektirovaniya medlennykh neytronov)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 4, pp 472-474 (USSR)

ABSTRACT:

From the results obtained by the previous paper (Ref 1) it was to be expected that by an increase of the acid component in the Li203.SiO2(Ce)-glasses their scintillation sensitivity

in wide ranges could be increased. It was found that in the case of a high silicon oxide content the lithium-silicate

compounds in the glass-forming state are not stable

(LiO2.3SiO2(Ce) already opalesces). The addition of other

glass-forming substances such as phosphorus or boron causes no increase of the light yield. In glass of the type Lio, 3Sio,

additions of Al203 in different quantities were tried out. At a 0.08 M Al<sub>2</sub>0<sub>3</sub> concentration a maximum scintillation effect

is observed (the yield curves are given). For a glass of the type  $\mathrm{Li}_2^{0.3}$ Si02.0.08 Al203 (Ce) having a thickness of 0.2 cm

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

SOV/89-6-4-13/27 Lithium Silicate Scintillation Glasses for the Detection of Slow Neutrons

the scintillation efficiency is higher by 3% than in the case of a NaJ(T1)-crystal. Ce-concentration was varied within a range of from 0.01 to 1.015 CeO<sub>2</sub>. The dependence of the degree of efficiency of scintillation of the thickness of the glass shows that the increase of the SiO<sub>2</sub>-content leads to the production of opaque glasses, whereas an addition of aluminum oxide increases not only the light yield but also the degree of transparence. By means of the scintillator LiO<sub>2</sub>.3SiO<sub>2</sub>.0.08 Al<sub>2</sub>O<sub>3</sub> (Ce) (in connection with the multiplier FEU-S) the differential-amplitude spectrum of a Po+Be-neutron source was recorded. A similar recording was made for a neutron beam emitted from a reactor, in which case the lithium in the scintillator consisted of 90.5% LiO. The efficiency of this glass with respect to a thermal neutron flux inciding vertically upon the scintillator attains an amount of 90%. There are 5 figures and 2 Soviet references.

SUBMITTED:

September 20, 1958

Card 2/2

STARTSEV, V.I., otv. red.; ALEKSANDROV, B.S., red.; BEINAYEV, L.M., red.; ERUDZ', V.G., red.; VOYTOVETSKIY, V.K., red.; GALANIN, M.D., red.; DISTANOV, B.G., red.; KLIMOV, A.P., red.; SEMENENKO, M.G., red.; SHAMOVSKIY, L.M., red.

[Scintillators and scintillation materials] Stsintilliatory i stsintilliatsionnye materialy. Moskva, Gos. komitet Soveta Ministrov SSSR po khimii, 1960. 319 p. (MIRA 15:4)

1. Koordinatsionnoye soveshchaniye po stsintilliatoram. 2nd, 1957. (Scintillation counters)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

22879 8/089/61/010/005/007/015 B102/B214

26.2263

AUTHORS:

Voytovetskiy, V. K., Tolmacheva, N. S.

TITLE:

Scintillation glasses with increased light yield for neutron

detection

PERIODICAL:

Atomnaya energiya, v. 10, no. 5, 1961, 504

TEXT: It is known that the light yield of cerium activated luminescence glasses increases with the Ce(III) content. However, if such a glass is made in a neutral medium the Ce(IV) predominates leading to a coloring of the glass. The lithium silicate glasses with 0.01-0.015 cerium content the glass. The lithium silicate glasses with 0.01-0.015 cerium content were found to be optimal, for the effect of Ce(IV) became marked at higher were found to be optimal, for the effect of the glass is made in a cerium content. It could now be shown that if the glass is made in a cerium content. It could now be shown that if the glass is made in a cerium medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be kept reducing medium relatively large quantities of the activator can be reducing medium relatively large producing medium relatively large quantities of the activator can

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Scintillation glasses with increased...

crucibles in the silicon carbide furnace at 1250-1270°C. In the course of one hour the temperature was increased to 1370-1400°C and melting was continued till glass was formed. For some compositions a temperature increase to 1460°C for a short time was necessary. Then the mass was pressed in cold forms so that disks 3.5-4 cm in diameter were obtained. These glasses were subjected to a thermal treatment at 500°C in a muffle furnace. The scintillation efficiency of thin Li20.3Si02.0.08Al203 glasses remained unchanged for cerium concentrations of 0.05-0.1 and amounted to 8-9 % (on excitation by electrons) of the scintillation efficiency of NaI(T1) crystals. For glasses of 1 cm thickness the optimal content of cerium was 0.05-0.06. On scintillation excitation by the reaction products of thermal neutrons with Lib of Li20.3Si02.0.08Al203.0.1CeO2 glasses in scintillation counters a half width of the peak of 22.5 % was reached. A further increase of the scintillation efficiency can be obtained with more complicated compositions of the glasses, as, for example, 11 % of Li20.0.5CaO.48i02.0.13Al203.0.1CeO2. With increasing thickness of the glass the optimal content of cerium decreases and approaches the value

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22879

S/089/61/010/005/007/015 B102/B214

Scintillation glasses with increased...

0.06. Finally the authors report on the results of Ref. 4 (on boron glasses in scintillation neutron detectors). There are 1 figure and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ref. 4: L. Bollinger, English-language publication reads as follows: Ref. 4: L. Bollinger, G. Thomas, R. Ginther. Rev. Scient. Instrum. 30, 1135 (1959).

SUBMITTED: August 1, 1960

Card 3/3

VOYTOVETSKIY, V.K.; KORSUNSKIY, I.L.

Method of detecting α particles and fission fragments with a scintillation counter in the presence of a strong β - or γ -background. (MIRA 14:5) Atom.energ. 10 no.5:505-506 My 161. (Alpha rays) (Scintillation counters)

TOTSKIY, I.A., Cand Phys Math Sci — (diss) "Angular distribution of elastically dispersed neutrons with an initial energy of 2.8 million electron volts." Kiev, 1958, 8 pp with graphs (Acad Sci UkSSR. Inst of Physics) 200 conies (KL, 50-58, 120)

- 13 -

FODOR, O.; DUMITRASCU, D.; BADEA, Gh.; BAN. A.; TRAGOR, S.; CALU, C.; SZANTAY, I.

Adaptive and pathological changes in the jejunum and ileum after stomach surgery. Stud. cercet. med. intern. 5 no.2:167-172 164

Calculating the dispersion characteristics of iris wave guides.

Uskoriteli no. 4:127-146 '62.

Calculating the intensity of the accelerating field in an iris wave guide. Ibid.:147-157

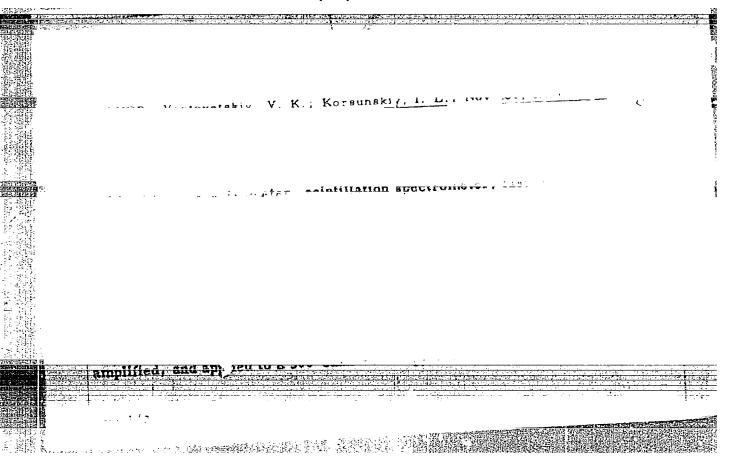
(MIRA 17:5)

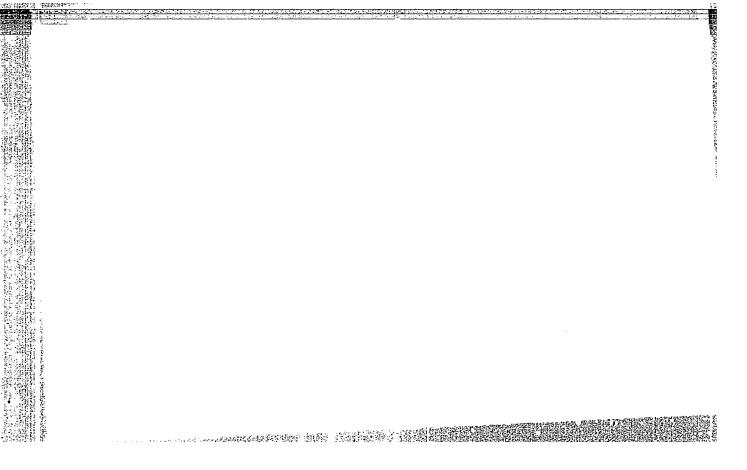
VOYTOVETSKIY, V.K.; KORSUNSKIY, I.L.; PAZHIN, Yu.F.

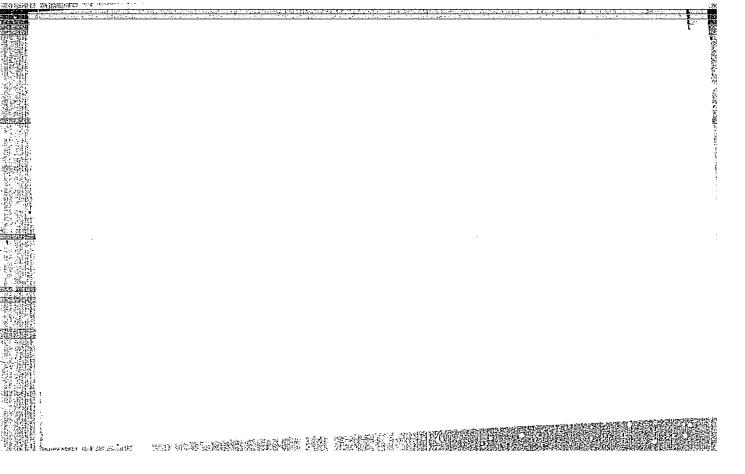
Neutron-neutron interaction in the S-state. Zhur. eksp. i teor. fiz. 47 no.5:1612-1627 N '64.

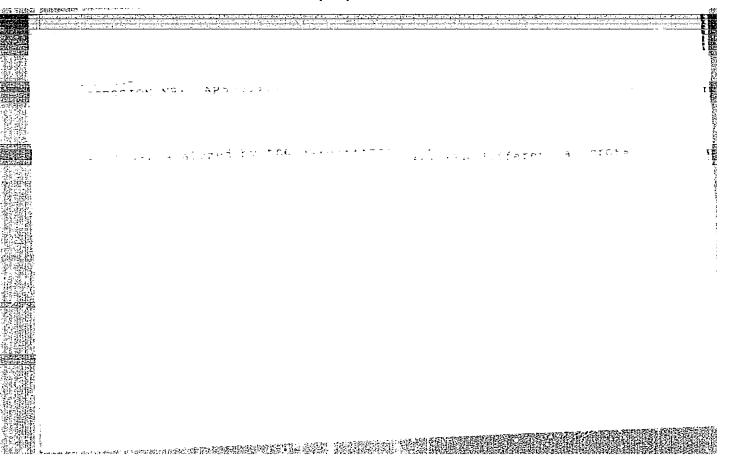
Angular distribution of protons emitted in the reaction D (N, p)2n. Ibid.:1628-1630 (MIRA 18:2)

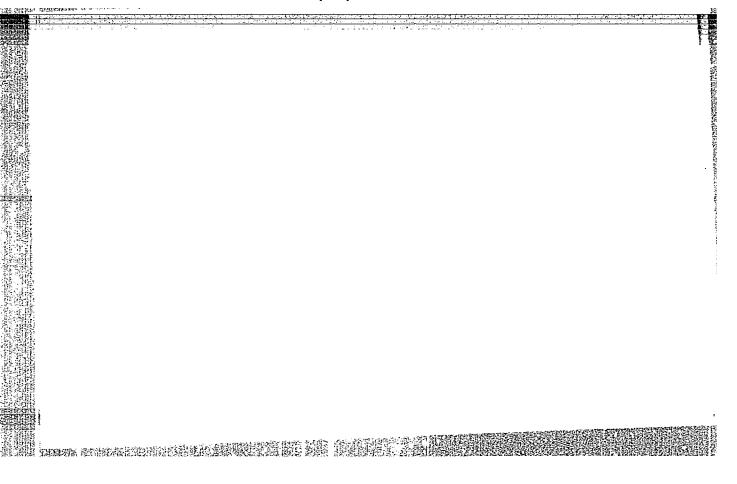
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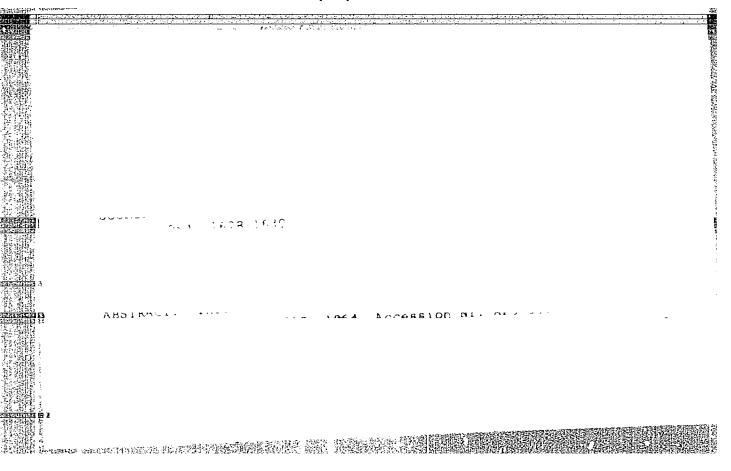


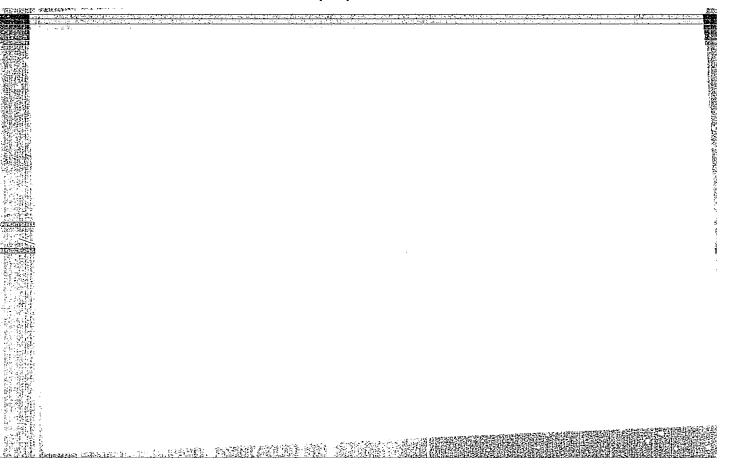


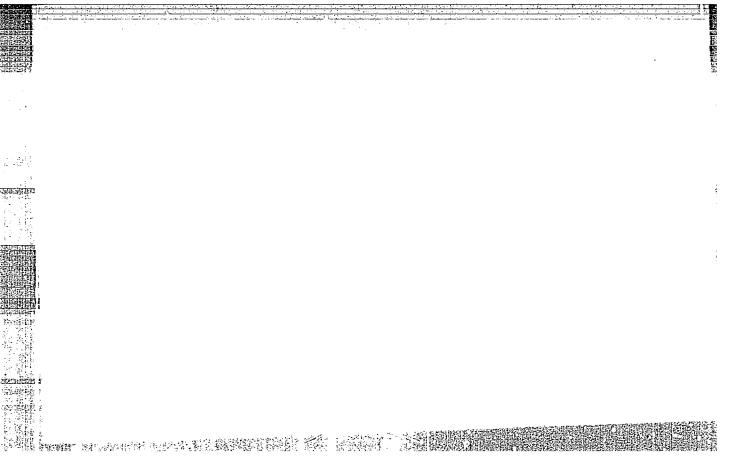












VOYTOVETSKIY, V. K.; KORSUNSKIY, I. L.; PAZHIN, Y F.

"S-state neutron interaction."

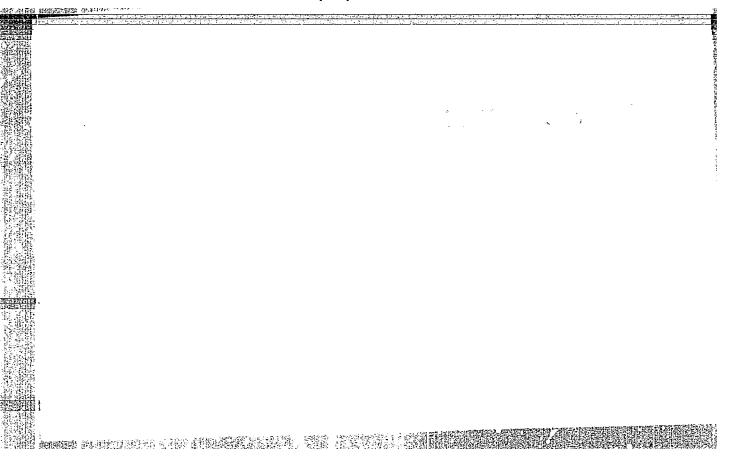
report submitted for Intl Conf on Low & Medium Energies Nuclear Physics, Paris, 2-8 Jul 64.

VOYTKUNSKIY, Yaroslav Iosifovich; SOLOV'YEV, V.I., kand. tekhn.
nauk, retsenzent; GIRS, I.V., kand. tekhn. nauk, nauchn.
red.; BRITSYNA, I.M., red.

[Resistance of water to the movement of ships] Soprotivlenie vody dvizheniiu sudov. Leningrad, Sudostroenie, 1964. (MIRA 17:8)

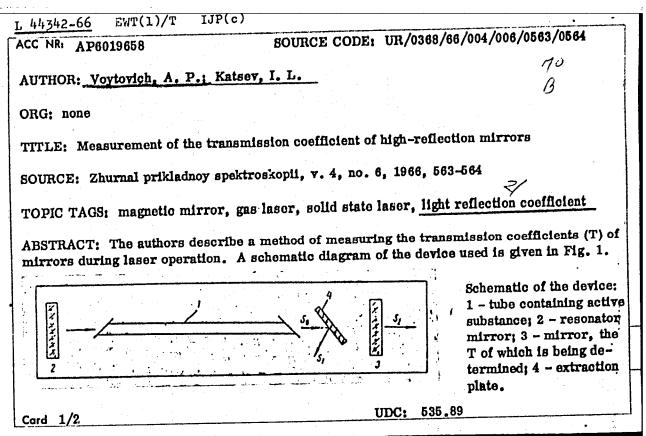
VOYTOVICH, A.P. [Vaitovich, A.P.]; PRIMA, A.M. [Pryma, A.M.]; BORISEVICH, N.A. [Barysevich, M.A.]

Determining the optical constants of synthetic quartz in the infrared spectral region. Vestsi AN BSSR. Ser. fiz.-tekh. nav. (MIRA 18:1) no.2:39-43 '64.



VOYTOVICH, A.P.; KATSEV, I.L.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120015-6"

